

UNIVERSITY  
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ORAC HODSE  
EUGENWEARING  
ELECTRICAL





## WELCOME TO ELECTRICAL ENGINEERING OPEN HOUSE

On behalf of the department of Electrical Engineering it is my pleasure to welcome you to Open House. For this year's theme the students have chosen "Engineering Target: Tomorrow."

In electrical engineering you will discover that the future is now! Our students have designed and built exhibits to inform and entertain you, to pique your curiosity and provide glimpses of this exciting and fast-changing field.

We hope you enjoy your visit!

E. C. Jordan  
Head of Department

The engineering college of the University of Illinois is widely regarded as one of the nation's finest, and the Electrical Engineering department is no exception. We feel that we have some truly outstanding exhibits this year, displaying a wealth of talent and ingenuity. To facilitate full appreciation and understanding of the projects, we would like you to feel free to ask any questions that you have. All of us in the department wish you a pleasurable tour of EEOH '79.

Bruce C. Mather  
University of Illinois  
155 Electrical Engineering Building  
Urbana, Illinois 61801

### EEOH EXHIBIT LOCATIONS

#### ELECTRICAL ENGINEERING BUILDING

##### Basement

**Station 1** - Electrical Engineering Showcase - this newly-renovated display is a year-round source of inspiration to all future engineers.

**Station 2** - Gould - Gould brings down a sampling of the electrical products that they manufacture.

**Station 3** - Tesla Coil - see how a light bulb can be lit without being plugged in.

Electrostatics - A demonstration that will make your hair stand on end.

Jacob's Ladder - Frankenstein and Flash Gordon each had one of these.

##### 1st Floor

**Station 4** - Flash, beep, whistle - Federal Signal Co. displays the lights, horns and sirens for 1979.

**Station 5** - Integrated Security System - R2D2 look out! This robot sentry will nab even the lightest-footed burglar. Eta Kappa Nu (Electrical Engineering Honor Society)

**Station 7** - Ultra Buckingham - An ultrasonic fountain that could clean the pennies that are thrown into it. Bruce McCormick and Steve Hensley.

**Station 7** - INFORMATION - In the EE lounge will be located on information booth, pop and cookies, T-shirt sales, and plenty of chairs! Take time out for a break and a snack.

**Station 8** - Bionics, implants and health - The Bioengineering Society has put together a fantastic array of exhibits featuring a blood flow simulator, mock hospital room, a rapid ECG screener, bionic parts, and much more!

**Station 9** - SYNTON - The ham radio club at the U of I has set up shop to converse with hams from around the world. England is just next door.

**Station 10** - Discomania - J. R. Russell give the inside story behind the flashing lights and special effects that truly create the DISCO!

**Station 11** - CSO — Calling CYBER, calling the IBM 360. This is the EE's contact center with the universities computers.

PLATO - Games, games, games. This computer-based educational system developed at UIUC has more than just course lessons.

**Station 12** - Electrostatic Speakers - A demonstration of new generation electrostatic loudspeakers as an alternative to dynamic drivers in high fidelity sound reproduction.

**Station 13** - Fill it up with DC - An electric car is not too far from the present as the Society of Woman Engineers (SWE) present a display of electric transportation soon to come.

**Station 14** - "A World for Woman Engineers" is the title of a film to be shown every 30 minutes followed by a Q and A session. Society of Women Engineers.

##### 2nd Floor

**Station 15** - Where the sounds go - From a record or tape to your ear, GRAFYX shows you how a stereo really works. Brad May.

**Station 16** - Advanced Digital Systems Lab - This year the student and staff will feature several microcomputer projects including Archimedes the Robot, the bionic mouse, the hexaphone, computer games, and more!

**Station 17** - Musical Use of Personal Computing - The Gooch Cybernetic Synthesizer. This PLATO assisted synthesizer is the ultimate in creating any kind of sound you could imagine. PLATO Music Group.

**Station 18** - Ozzie the Oscilloscope - It knows all, sees all and tells all!

**Station 19** - Magnetic Skillet - Anyone who sees this will know that we're really cooking.

**Station 20** - A Bear Taking Pictures - Rod Rudd and Don Sloan check the cars down Green Street with their version of a smokey radar gun.

**Station 21** - Digitally Synthesized AM Receiver - Finding an AM station is as easy as pushing a button along with digital readout. By Steve Wagner.

**Station 22** - Computer controlled Transit System . . . and leave the driving to us. . . By Tau Beta Pi (All Engineering Honor Society)

**Station 23** - Let the Sun Shine - The Institute of Electrical and Electronic Engineers (IEEE) turns to the sun as an inexhaustable energy supply beamed to the earth by satellite.



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All of these dedicated, industrious people  
helped prepare EEOH 1979 for you. . .

Department Head . . . . . Edward C. Jordan  
Associate Heads . . . . . Edward W. Ernst  
Oscar L. Gaddy

Student Groups



IEEE - The U of I branch of the Institute of Electrical and Electronics Engineers. This student society is devoted to serving students and faculty associated with the Electrical Engineering department.



Eta Kappa Nu - An honor society consisting of academically outstanding students enrolled in the Electrical Engineering curriculum.

Industrial Exhibits

FEDERAL SIGNAL CORPORATION  
Blue Island, Illinois

GOULD  
Rolling Meadows, Illinois

J. R. RUSSELL  
Champaign, Illinois

GRAFYX AUDIO PRODUCTS  
St. Charles, Illinois

. . . and of course, all of the devoted students, faculty and staff from the Electrical Engineering department

ENGINEERING TARGET: TOMORROW

PROF. JOHN DYSON . . . . . Faculty Advisor  
(Senior, Riverside, Ill.)  
DON NOVOTNY . . . . . Graphics  
(Junior, Downers Grove, Ill.)  
DAVE MUELLER . . . . . Secretary/Personnel  
(Junior, Geneseo, Ill.)  
ANNE DELK . . . . . Industrial Exhibits  
(Junior, Clifton, Ill.)  
JERRY BUCKSATH . . . . . Department Exhibits  
(Senior, Genoa, Ill.)  
TIM BUJA . . . . . New Projects  
(Senior, Naperville, Ill.)  
ANDREA MRAVCA . . . . . Publicity  
(Junior, Mt. Prospect, Ill.)  
BRUCE MATHER . . . . . Chairman

1979 EEOH COMMITTEE